

FRED BURR DAM

Fact Sheet

PROJECT DESCRIPTION

- ◆ Located on public land in the Bitterroot National Forest in Ravalli County, 9 miles southwest of Victor. Impounds the headwaters of Fred Burr Creek.
- ◆ Owned by DNRC & managed by SWPB under a U.S. Forest Service Special Use Permit.
- ◆ Operated by Fred Burr Water Users Association since 1948
- ◆ Project consists of:
 - ◆ Rolled earthfill embankment dam, 50 feet high, 325 feet long.
 - ◆ 20-foot wide, 120 foot-long, concrete lined rectangular chute spillway with 4.3 foot-high radial gate.
 - ◆ Four-foot diameter reinforced concrete conduit, single cell wet tower with control mechanism at the top of the tower on the dam crest.
 - ◆ Manually operated 48-inch diameter slide gate.
- ◆ Original construction completed in 1948 (dam was breached during a high runoff episode in the spring of 1948; the dam was reconstructed in 1949).
- ◆ Reservoir stores 525 acre-feet at normal full pool and covers 28 surface acres.

PROJECT DEFICIENCIES

- ◆ The spillway is nearing the end of its design life and will require future replacement. Replacement is needed due to concrete deterioration from age.
- ◆ Current safety standards may require a substantial increase in spillway capacity.
- ◆ The concrete outlet is deteriorating and needs repair. Lining or replacing the outlet are anticipated to be the primary options to correct the deficiencies.

PROPOSED REHABILITATION

- ◆ Construct a new spillway that meets or exceeds current safety standards.
- ◆ Line the existing outlet or replace with a new structure.

Estimated Project Cost: Could exceed \$2,000,000



Fred Burr Reservoir looking west



Downstream face



Spillway



Outlet



Upstream face and crest

